

Technology Deployment Initiatives and Partnership Program

Request for Funding FY 2003

FHWA Strategic Goal Area:

Productivity

Project Title:

Pipe Insert Evaluation

Problem Statement:

We often have existing drainage pipe in excess of 20 years old under significant fills which have failures of various degrees. The excavation for removal and replacement of these pipes is extremely costly. Pipe liners are a possible alternative to pipe replacement.

Proposal:

Several pipe liner systems have been examined for possible use in these remote sites, often with steep gradients, high velocities, some debris, especially gravels and rocks, and sometimes with naturally occurring chemicals detrimental to some materials.

Benefits:

In situations where no drainage modifications are necessary, pipe inserts could save the cost of excavation and reconstruction of fills over existing pipes before they fail.

Resources/Cost:

\$150,000

Duration:

One contract in a National Park, such as Yellowstone, during 2003 and 2004

Organization/Method:

The Designer and Project Manager will select the appropriate location to evaluate a rigid plastic pipe liner expected to meet the environmental and physical needs. A cost analysis will be made for a contract modification or a new construction item.

Submitter:

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Champion:

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